

Stormwater Management Program

Revised March 2012

For Use In NPDES Phase II Implementation for Secondary Permittees.



Stormwater Management Program

Table of Contents

Introduction3
CDID #1 Background5
Document Organization5
Section 1 Public Education and Outreach6
1.1 Permit Requirements6
1.2 Measurable Compliance Activities6
1.3 Future Compliance Activities7
Section 2 Public Involvement and Participation8
2.1 Permit Requirements8
2.2 Measureable Compliance Activities8
2.3 Future Compliance Activities
Section 3 Illicit Discharge Detection and Elimination (IDDE)9
3.1 Permit Requirements9
3.2 Measurable Compliance Activities11
3.3 Future Planned Compliance Activities11
Section 4 Construction Site Stormwater Runoff Control12
4.1 Permit Requirements12
4.2 Measurable Compliance Activities12
4.3 Future Compliance Activities12
Section 5 Post-Construction Stormwater Management for New Development & Redevelopment
5.1 Permit Requirements13
5.2 Measureable Compliance Activities13
5.3 Future Compliance Activities13

Table of Contents - Continued

Section 6 Pollution Prevention and Good Housekeeping for Municipal Operations 14
6.1 Permit Requirements14
6.2 Measurable Compliance Activities15
6.3 Future Compliance Activities 15
Section 7 Compliance with Total Maximum Daily Load (TMDL) Requirements
Section 8 Monitoring 17
8.1 Permit Requirements17
8.2 Measurable Compliance Activities17
8.3 Future Compliance Activities 17
Section 9 Reporting Requirements
9.1 Permit Requirements18
9.2 Measurable Compliance Activities19
9.3 Future Compliance Activities 19

CDID #1 Stormwater Management Program

Introduction

This document has been prepared to meet the requirements of the National Pollutant Discharge Elimination System (NPDES) and State of Washington Water Pollution Control Law requirements for Secondary Permittees in Western Washington. As a Secondary Permittee, Consolidated Diking Improvement District No. 1 (CDID #1) is entering into Phase II of the Municipal Stormwater Permit (Permit) that calls for development of a Stormwater Management Program (SWMP or Program).

The CDID #1 SWMP is designed to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP) to meet Washington State All Known and Reasonable Treatment (AKART) requirements and protect water quality. This goal is accomplished by the inclusion of all Permit SWMP components and implementation schedules and with CDID #1, as a Secondary Permittee, working with the Primary Permittee agencies of the City of Longview, City of Kelso and Cowlitz County.

The major components of the CDID #1 SWMP are:

- A. An adopted current Stormwater Management Program and Regulations Manual.
- B. Identification of actual and potential point and non-point pollutant sources. This is known as Illicit Discharge Detection and Elimination (IDDE).
- C. Establish an ongoing permit review involvement and monitoring process for new and redevelopment activities in conjunction with the City of Longview, City of Kelso and Cowlitz County. The goal is to control water quality associated with construction and surface water runoff.
- D. Development of record keeping/tracking system for industrial/commercial and residential connections to the Cities and County's MS4 (part of IDDE).
- E. Identify areas of existing or future problem discharges to/from the MS4 (part of IDDE).
- F. Establish a set of corrective measures, as well as preventative maintenance activities, to deal with problem areas. Prioritize, budget, and implement an action plan for CDID #1's MS4 that addresses water quality issues (O&M Manual for Pollution Prevention).
- G. Continue working relationships with Primary Permittee agencies to foster interagency coordination where systems/waterways cross jurisdictional boundaries.

- H. Conduct a number of public information/education and outreach activities dealing with surface water quality. These will bring the SWMP's goals, objectives, and policies to the awareness of CDID #1 constituents.
- I. Prepare yearly reports that outline the SWMP's activities and accomplishments for submittal to Department of Ecology and public posting.

Where CDID #1 is already implementing actions or activities called for in the SWMP, CDID #1 will continue those actions or activities called for in the SWMP Permit. As part of the implementation of the CDID #1 SWMP's, CDID #1 will gather, track, maintain and use information on an ongoing basis to evaluate the Program's development, implementation, Permit compliance, and to set priorities. Since March 2008, CDID #1 has been tracking the cost (or estimated cost) of development and implementation of each component of the SWMP. This Program will be updated annually for submittal with CDID #1's Annual Report to Ecology, due on March 31st of each year.

Background

CDID #1 was created in 1923 through the merger of six (6) independent Diking Districts into one Consolidated Diking District. The District's responsibility is to protect the 11,000 acre Longview, Kelso and Cowlitz County valley from flood threats from the Cowlitz and Columbia Rivers, and to control stormwater runoff from a 16,000 acre watershed. Stormwater runoff is controlled through a combination of 35 miles of ditches, culverts, and seven (7) pumping stations with a total of 17 pumps capable of pumping 628,000 gallons per minute (gpm). Mapping of the District's ditches, culverts and pump stations is attached in the appendices.

Document Organization

This SWMP is based on the required six (6) sections outlined in the Stormwater SWMP for Secondary Permittees Permit documents. Each section includes the relevant SWMP Permit requirements, together with a description of existing or proposed compliance activities.

The six (6) required sections are as follows:

- Section 1 Public Education and Outreach
- Section 2 Public Involvement and Participation
- Section 3 Illicit Discharge Detection and Elimination (IDDE)
- Section 4 Construction Site Stormwater Runoff Control
- Section 5 Post-Construction Stormwater Management for New Development and Redevelopment
- Section 6 Pollution Prevention and Good Housekeeping for Municipal Operations

Two additional sections identified as:

Section 7 - Compliance with Total Maximum Daily Load (TMDL) Requirements Section 8 - Monitoring

One final section covers the report requirements:

Section 9 - Reporting Requirements

Section 1: Public Education and Outreach

The CDID #1 SWMP includes an education program aimed at residents, businesses, industries, elected officials, policy makers, and employees of CDID #1. The goal of the education program is to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts. The CDID #1 education program will continue to be developed with regional input. CDID #1 will utilize the services of the City of Longview, City of Kelso and Cowlitz

CDID #1 entered into an Interlocal Agreement with the City of Longview, City of Kelso and Cowlitz County to address the Public Education and Outreach aspects of the SWMP.

1.1 Permit Requirements

CDID #1, as a Secondary Permittee, will label all of CDID #1 owned storm drain inlets with a message/sign reading "Dump No Waste – Drains to River." Inlets that will be included are those that are located in maintenance yards, pump stations, parking lots, along sidewalks, yard drains and at pedestrian access points. Half, or 50%, of all inlets will be labeled by February 2010, and the balance will be labeled no later than September 2011. As regular maintenance is performed any inlet label that is no longer clearly visible or easily readable shall be made visible or relabeled within 90 days of discovery.

1.2 Compliance Activities

CDID #1 identified and labeled the storm drain inlets at the main facility located at 5350 Pacific Way, Longview, Washington, which includes the office, maintenance shop and maintenance yards.

Through the Interlocal Agreement CDID #1 partnered with local Phase II Primary Permittees to conduct a professional telephone survey to measure the public's knowledge and practices regarding stormwater and pollution. Following the results of the baseline survey the Permittees engaged in an education campaign to improve the knowledge and actions of the public related to improving stormwater quality.

CDID #1, as a Secondary Permittee, working in conjunction with Primary Permittees, the City of Longview, City of Kelso and Cowlitz County, participated in a 2008 production of a "Citizen's Guide to Stormwater Pollution" pamphlet, which has been distributed to area citizens and includes the following topics:

- How stormwater runoff affects local water bodies.
- Identification of illicit discharges.
- Proper use and application of pesticides and fertilizers.
- Benefits of Low Impact Development and utilizing well adapted vegetation.

- Alternative vehicle washing practices that minimize pollutants in stormwater.
- Benefits of proper vehicle maintenance, proper handling and disposal of wastes.
- Proper disposal of hazardous products.
- Benefits of litter control and proper disposal of pet waste.

1.3 Future Compliance Activities

CDID #1 will regularly inspect and replace storm drain labels as required.

CDID #1 will continue coordination with the Primary Permittees, the City of Longview, City of Kelso, and Cowlitz County, to improve public education and awareness.

Section 2: Public Involvement and Participation

CDID #1's Stormwater Management Program includes continuing opportunities for public involvement through advisory committees and available participation in twice monthly (the second and last Tuesday) meetings with the CDID #1 Board of Supervisors.

2.1 Permit Requirements

CDID #1 will publish a public notice in the local newspaper or on the Permittee's website soliciting public review of the Stormwater Management Program (SWMP). The latest updated version of the SWMP will be made available to the public on the Permittee's website.

2.2 Current Compliance

The CDID #1 Stormwater Management Program is available for review and comment at <u>www.cdid1.org</u>.

2.3 Future Compliance Activities

CDID #1 will continue to plan for public participation opportunities.

Section 3: Illicit Discharge Detection and Elimination (IDDE)

CDID #1 continues an ongoing program to detect and remove illicit connections, discharges and improper disposal, including any spills not under the purview of another responding authority, into the storm drains owned or operated by CDID #1.

3.1 Permit Requirements

- A. Per Section S6.D.3., CDID #1 will comply with all the rules, ordinances and regulations within the Primary Permittees' jurisdictions; the City of Longview, City of Kelso and Cowlitz County.
- B. CDID #1 developed and adopted policies prohibiting illicit discharges and illegal dumping, which relies on enforcement mechanisms in conjunction with the Primary Permittees, the City of Longview, City of Kelso, and Cowlitz County. Items being addressed are illicit connections, non-stormwater discharges, and spilling, dumping, or otherwise improper disposal of hazardous materials, pet waste, yard debris and litter.
 - 1. Allowable Non-Stormwater Discharges are:
 - a) Non-stormwater discharges covered by another NPDES permit, and discharges from emergency firefighting activities are allowed in the MS4 in accordance with S2, "Authorized Discharges."
 - b) Diverted steam flows.
 - c) Rising ground waters.
 - d) Uncontaminated ground water infiltration (as defined in Federal EPA document Title 40 CFR 35.2005(20)).
 - e) Uncontaminated pumped ground water.
 - f) Foundation drains.
 - g) Air conditioning condensation.
 - h) Irrigation water from agricultural sources that is commingled with urban stormwater.
 - i) Springs.
 - j) Water from crawl space pumps.
 - k) Footing drains.
 - I) Flows from riparian habitats and wetlands.

- 2. Prohibited non-stormwater discharges are:
 - a) Discharges from potable water sources, including water line flushing, hyperchlorinated water line flushing, fire hydrant system flushing, and pipeline hydrostatic test water. Planned discharges shall be dechlorinated to a concentration of 0.1 ppm or less, pH-adjusted if necessary, and volumetrically and velocity controlled to prevent resuspension of sediments in the MS4.
 - b) Discharges from lawn watering and other irrigation runoff. These discharges shall be minimized through, at a minimum, public education activities and water conservation efforts conducted by the Secondary Permittee, CDID #1, and/or the local jurisdictions, Primary Permittees, the City of Longview, City of Kelso and Cowlitz County.
 - c) Dechlorinated swimming pool discharges: The discharges shall be dechlorinated to a concentration of 0.1 ppm or less, pH adjusted and reoxygenated, if necessary, and volumetrically and velocity controlled to prevent re-suspension of sediments in the MS4. Swimming pool cleaning wastewater and filter backwash shall not be discharged to the MS4.
 - d) Street and sidewalk wash water, water used to control dust, and routine external building wash down that does not use detergents. The Secondary Permittee shall reduce these discharges at a minimum, through public education activities and/or water conservation efforts conducted by the Secondary Permittee and/or the local jurisdiction. To avoid washing pollutants into the MS4, the Secondary Permittee shall minimize the amount of street wash and dust control water used. At active construction sites, street sweeping shall be performed prior to washing the street.
 - e) Other non-stormwater discharges shall be in compliance with the requirements of a Stormwater Pollution Prevention Plan reviewed by the Permittee, which addresses control of such discharges.
- C. Develop a comprehensive Stormwater Mapping System showing all known storm drain outfalls, labeled receiving waters, and delineated areas contributing runoff to each outfall. Mapping document will be available electronically for Ecology as well as the Primary Permittees, the City of Longview, City of Kelso, and Cowlitz County.
- D. Conduct annual visual field inspections and inspect for illicit discharges at all known outfalls that discharge to surface waters. Visually inspect at least one third of all known outfalls each year within CDID #1's drainage system. Develop and implement procedures to identify and remove any illicit

discharges. Maintain records of all visual inspections and follow-up activities where violations have been identified.

- E. Develop and implement a Spill Response Plan, which includes coordination with a qualified spill responder.
- F. Provide staff training on proper Best Management Practice for preventing illicit discharges, including spills.

3.2 Current Compliance Activities

CDID #1 is in compliance with all relevant rules, ordinances and regulations of the Primary Permittees, the City of Longview, City of Kelso, and Cowlitz County, with respect to illicit or non-stormwater discharges.

3.3 Future Planned Compliance Activities

CDID #1 continues to work with the Primary Permittees, the City of Longview, City of Kelso, and Cowlitz County, on enforcement dealing with illicit discharges and illegal dumping.

CDID #1 continues the system wide visual inspection schedule and recordkeeping form for meeting the annual inspection requirement.

Section 4: Construction Site Stormwater Runoff Control

CDID #1, as a Secondary Permittee, has control of few construction sites. The few sites controlled by CDID #1 regularly comply, and will continue to comply, with the regulations of the local agencies, the Primary Permittees, being the City of Longview, City of Kelso, and Cowlitz County. For any site of one (1) acre or larger in size, CDID #1 complies with Ecology requirements.

4.1 Permit Requirements

As a Secondary Permittee, CDID #1's requirements for construction site stormwater will comply with the SWMP Permit Section S6.D.4., and include the following five items:

- A. Comply with all relevant rules, ordinances and regulations of the permitting jurisdictions; the City of Longview, City of Kelso, and Cowlitz County.
- B. Construction projects, controlled by CDID #1, which require a construction stormwater permit, shall obtain coverage under the NPDES General Permit for Stormwater Discharges Associated with Construction Activities or an alternative individual NPDES permit prior to discharging construction related stormwater.
- C. Coordinate with the City of Longview, City of Kelso, and Cowlitz County, with respect to projects owned and operated by other entities which discharge into a CDID #1 ditch, to assist the local jurisdictions with achieving compliance with relevant ordinances, rules, and regulations of the local jurisdictions.
- D. Provide training to educate relevant staff in erosion and sediment control BMPs and requirements or, hire trained professional to perform this work.
- E. Coordinate, and make available, construction sites controlled by CDID #1 for inspection by the local agency, the City of Longview, City of Kelso, and Cowlitz County, or Ecology.

4.2 Current Compliance Activities

CDID #1 currently complies with all known stormwater rules, ordinances and regulations of the local agencies; the City of Longview, City of Kelso, and Cowlitz County, as well as State rules and laws.

4.3 Future Compliance Activities

CDID #1 has few construction projects that are controlled by CDID #1. Ongoing interlocal agreements have and will continue to be developed with the City of Longview, City of Kelso, and Cowlitz County to provide a unified, seamless response for all construction stormwater runoff projects within the boundaries of CDID #1. Selected

CDID #1 staff will update their training in appropriate BMPs for construction stormwater runoff control.

Section 5: Post-Construction Stormwater Management for New Development Redevelopment

CDID #1 cooperates with the local agencies of the City of Longview, City of Kelso, and Cowlitz County in the ongoing management of post-construction projects, both new and redeveloped.

5.1 Permit Requirements

Comply with all relevant ordinances, rules and regulations established by the City of Longview, City of Kelso, and Cowlitz County, with respect to post-construction pollution prevention measures. Coordinate with the local jurisdictions with respect to other non-related CDID #1 projects, which also must comply with local agency rules, ordinances and regulations related to post-construction pollution prevention.

5.2 Current Compliance Activities

Currently, and for many years past, CDID #1 has complied with the local stormwater rules, ordinances and regulations for the City of Longview, City of Kelso, and Cowlitz County, with respect to post-construction stormwater management requirements.

5.3 Future Compliance Activities

CDID #1's staff will continue to update their knowledge of the City of Longview, City of Kelso, and Cowlitz County post-stormwater construction rules, ordinances and regulations as part of ongoing cooperation with each agency, and as the individual agency rules change with adoption of the "2005 Stormwater Management Manual for Western Washington," and with new BMPs as they develop in the future.

Section 6: Pollution Prevention and Good Housekeeping for Municipal Operations

CDID #1 will develop and implement an Operations and Maintenance (O&M) Plan to include a training component with the ultimate goal of preventing or reducing pollutant runoff from CDID #1 operations.

6.1 Permit Requirements

The CDID #1 O&M Plan shall include the following:

A. Stormwater collection and conveyance system, including catch basins, stormwater sewer pipes, open channels, culverts, structural stormwater controls, and structural runoff treatment and/or flow control facilities. The O&M Plan shall address, but is not limited to: scheduled inspections and maintenance activities, including cleaning and proper disposal of waste removed from the system. CDID #1 shall properly maintain stormwater collection and conveyance systems owned or operated by CDID #1 and regularly inspect and maintain all structural post-construction stormwater BMPs to ensure facility function.

Maintenance standards shall be as protective, or more protective, of facility function than those specified in Chapter 4, Volume V, of the "2005 Stormwater Management Manual for Western Washington."

CDID #1 shall conduct spot checks of stormwater treatment and flow control facilities following a 24-hour storm event with a 10-year or greater recurrence interval.

- 1. Roads, highways, and parking lots. The O&M Plan shall address, but is not limited to: deicing, anti-icing, and snow removal practices; snow disposal areas; material (e.g. salt, sand, or other chemical) storage areas; all season BMPs to reduce road and parking lot debris and other pollutants from entering the MS4.
- Vehicle fleets. The O&M Plan shall address, but is not limited to: storage, washing, and maintenance of vehicle fleets, and fueling facilities. CDID #1 shall conduct all vehicle and equipment washing and maintenance in a self-contained covered building, or in designated wash and/or maintenance areas.
- 3. External building maintenance. The O&M Plan shall address building exterior cleaning and maintenance, including cleaning, washing, painting and other maintenance activities.
- 4. Parks and open space. The O&M Plan shall address, but is not limited to, proper application of fertilizer, pesticides and herbicides; sediment and erosion control; BMPs for landscape maintenance and vegetation disposal and; trash management.

- 5. Material storage areas, heavy equipment storage areas and maintenance areas. CDID #1 shall develop and implement a Stormwater Pollution Prevention Plan to protect water quality at each of these facilities owned or operated by CDID #1 and not covered under the General NPDES Permit for Stormwater Discharges Associated with Industrial Activities or under another NPDES permit that covers stormwater discharges associated with the activity.
- 6. Other facilities that would reasonably be expected to discharge contaminated runoff. The O&M Plan shall address proper Stormwater Pollution Prevention Plan practices for each facility.
- B. From the date of coverage under the Permit, CDID #1 shall also have permit coverage for all facilities owned or operated by CDID #1 that are required to be covered under the General NPDES Permit for Stormwater Discharges Associated with Industrial Activities.
- C. The O&M Plan shall include sufficient documentation and records as necessary to demonstrate compliance with the O&M Plan requirements in S6.D.6.a.i. through vi. above.
- D. Train all employees whose construction, operations, or maintenance job functions may impact stormwater quality. The training shall address:
 - 1. The importance of protecting water quality.
 - 2. The requirements of the Permit.
 - 3. Operation and maintenance requirements.
 - 4. Inspection procedures.
 - 5. Ways to perform job activities to prevent or minimize impacts to water quality.
 - 6. Procedures for reporting water quality concerns, including potential illicit discharges.

6.2 Current Compliance Activities

Currently, CDID #1 is working in compliance with all known local guidelines from the City of Longview, City of Kelso, and Cowlitz County.

6.3 Future Compliance Activities

Staff training with reference to the CDID #1 O&M Plan will continue to assure compliance with the O&M Plan and the SWMP requirements.

Section 7: Compliance with Total Maximum Daily Load (TMDL) Requirements

Presently, there are no established TMDLs for the basin area served by CDID #1, or the areas served by the City of Longview, City of Kelso, and Cowlitz County. For TMDLs that are approved by EPA after the SWMP Permit is issued, Ecology may establish TMDL related requirements through future SWMP Permit modification if Ecology determines implementation of actions, monitoring, or reporting are necessary to demonstrate reasonable further progress toward achieving TMDL waste load allocations, and other targets, are not occurring and shall be implemented during the term of the SWMP Permit or when the SWMP Permit is reissued.

CDID #1, as a Secondary Permittee, will continue working with the Primary Permittees, the City of Longview, City of Kelso, and Cowlitz County, with respect to development of TMDLs for this area.

Section 8: Monitoring

Currently, there is no water quality monitoring required for the CDID #1 basin area of 11,000 acres.

8.1 Permit Requirements

CDID #1 shall provide the following information in each annual report:

- A. A description of any stormwater monitoring or studies conducted by CDID #1 during the reporting period. If stormwater monitoring was conducted on behalf of CDID #1, or if studies or investigations conducted by other entities were reported to CDID #1, a brief description of the type of information gathered or received shall be included in the annual report(s) covering the time period(s) the information was received.
- B. An assessment of the appropriateness of the BMPs identified by CDID #1 for each component of the SWMP, and any changes made, or anticipated to be made, to the BMPs that were previously selected to implement the SWMP and why.

8.2 Current Compliance Activities

Prepare for future water quality monitoring requirements.

8.3 Future Compliance Activities

The Primary Permittees, the City of Longview, City of Kelso, and Cowlitz County, may have future monitoring requirements. As the downstream receiver of stormwater runoff, CDID #1 will cooperate with future monitoring operations.

Section 9: Reporting Requirements

9.1 Permit Requirements

CDID #1 shall provide the following information in each annual report:

- A. No later than March 31st of each year, beginning in 2008, CDID #1 shall submit an annual report. The reporting period for the first annual report will be from the effective date of the permit through December 31, 2007. The reporting period for all subsequent annual reports will be the previous calendar year.
- B. Two printed copies and an electronic (PDF) copy of each document shall be submitted to Ecology. All submittals shall be delivered to:

Department of Ecology Water Quality Program Municipal Stormwater Permits P.O. Box 47696 Olympia, WA 98504-7696

- C. CDID #1 is required to keep all records related to this permit and the SWMP for at least five years. Except for the requirements of the annual reports described in this Permit, records shall be submitted to Ecology only upon request.
- D. CDID #1 shall make all records related to the permit and the CDID #1 SWMP available to the public at reasonable times during business hours. CDID #1 will provide a copy of the most recent annual report to any individual or entity upon request.
 - 1. A reasonable charge may be assessed by CDID #1 for making photocopies of records.
 - 2. CDID #1 may require reasonable advance notice of intent to review records related to the Permit.
- E. Annual report for Secondary Permittees. As a Secondary Permittee, CDID #1 shall complete the "Annual Report Form for Secondary Permittees" and submit it along with any supporting documentation to Ecology.
 - 1. The "Annual Report Form for Secondary Permittees" for CDID #1 is intended to summarize CDID #1's compliance with the conditions of this Permit, including:

- a) Status of implementation of each component of the SWMP in Section S6, "Stormwater Management Program for Secondary Permittees" of this Permit.
- b) An assessment of CDID #1's progress in meeting the minimum performance standards established for each of the minimum control measures of the SWMP.
- c) A summary of CDID #1's evaluation of their SWMP, according to Section S8.B.2.
- d) If applicable, notice that the MS4 is relying on another governmental entity (the City of Longview, City of Kelso or Cowlitz County) to satisfy any of the obligations under this Permit.
- e) Updated information from the prior annual report, plus any new information received during the reporting period pursuant to Sections S8.B.1. and S8.B.2.
- f) Certification and signature, pursuant to Section G19.D., and notification of any changes to authorization, pursuant to Section G19.C.
- 2. CDID #1 shall include with the annual report a notification of any jurisdictional boundary changes resulting in an increase or decrease in CDID #1's geographic area of Permit coverage during the reporting period, and any implications for the current SWMP.

9.2 Current Compliance Activities

CDID #1 has complied with Annual Report filing requirements since 2008. The reports are on file and available for review.

9.3 Future Compliance Activities

The CDID #1 SWMP is reviewed and updated annually. CDID #1 continually works on the education of staff and the general public with respect to an understanding and ongoing compliance with Ecology reporting requirements.